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FIG. 1

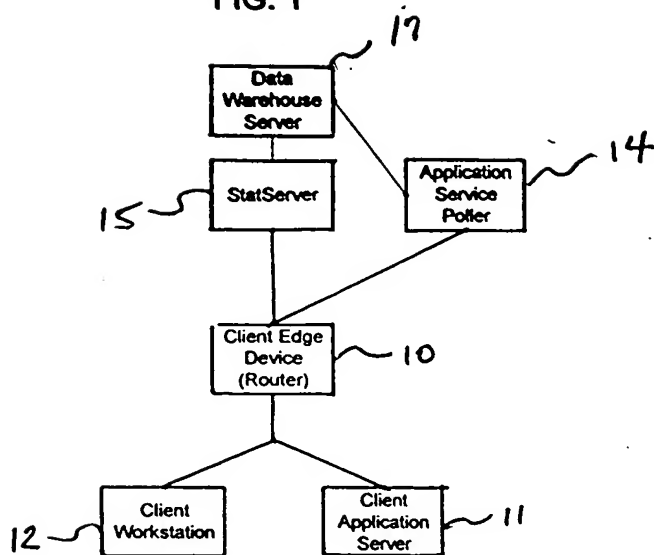
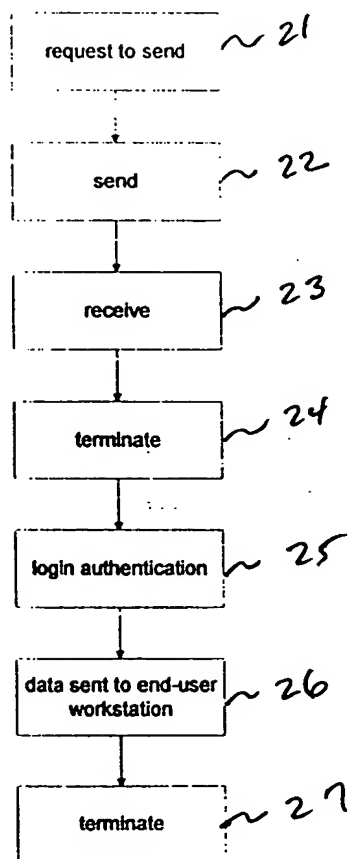


FIG. 2



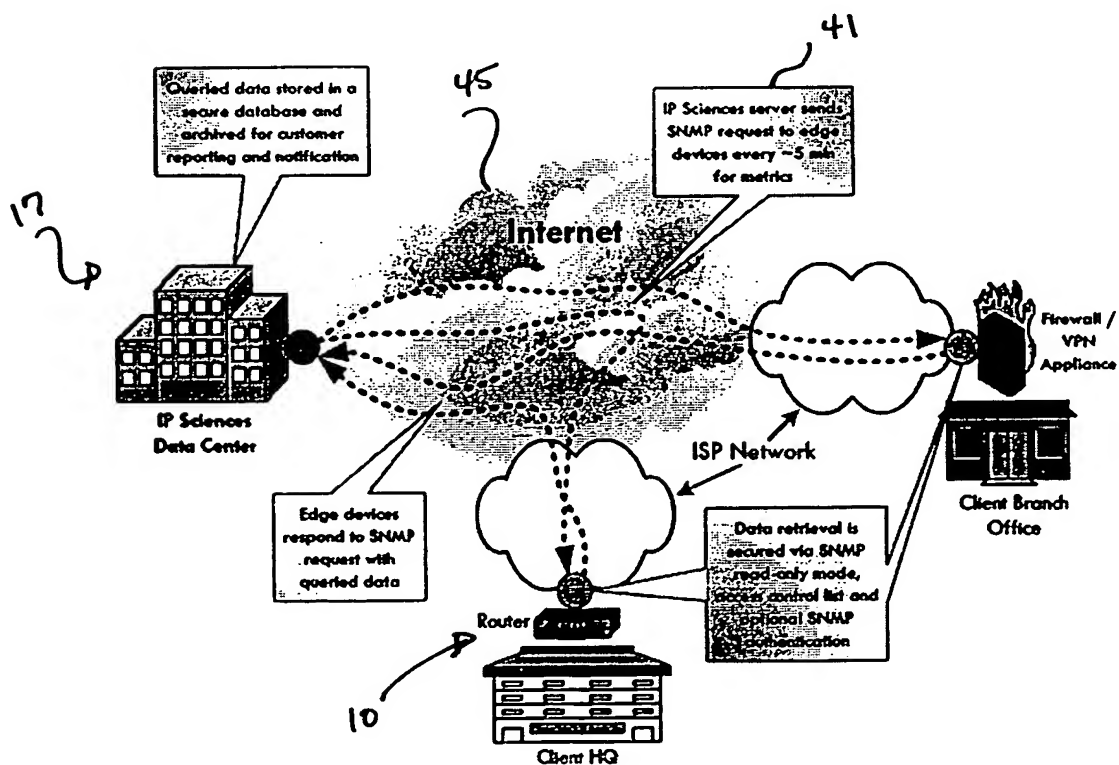
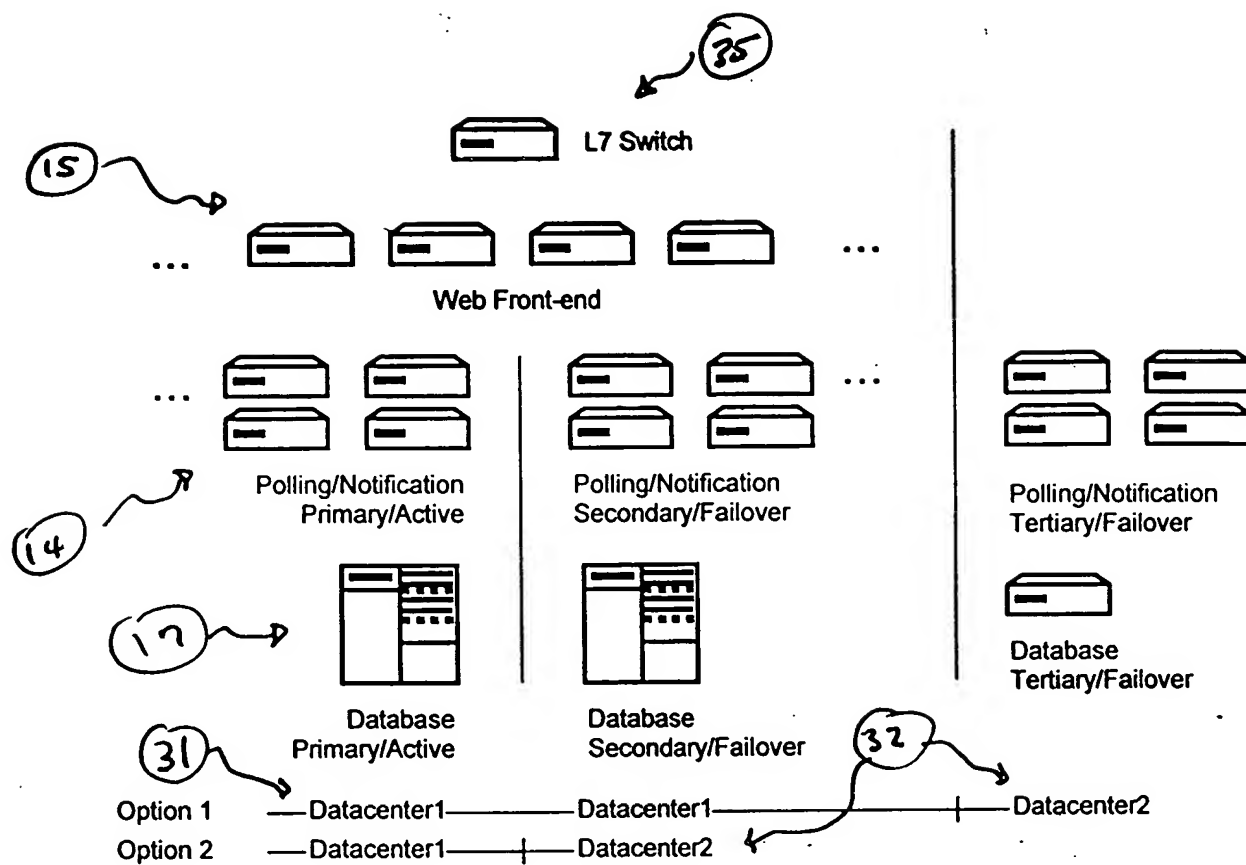
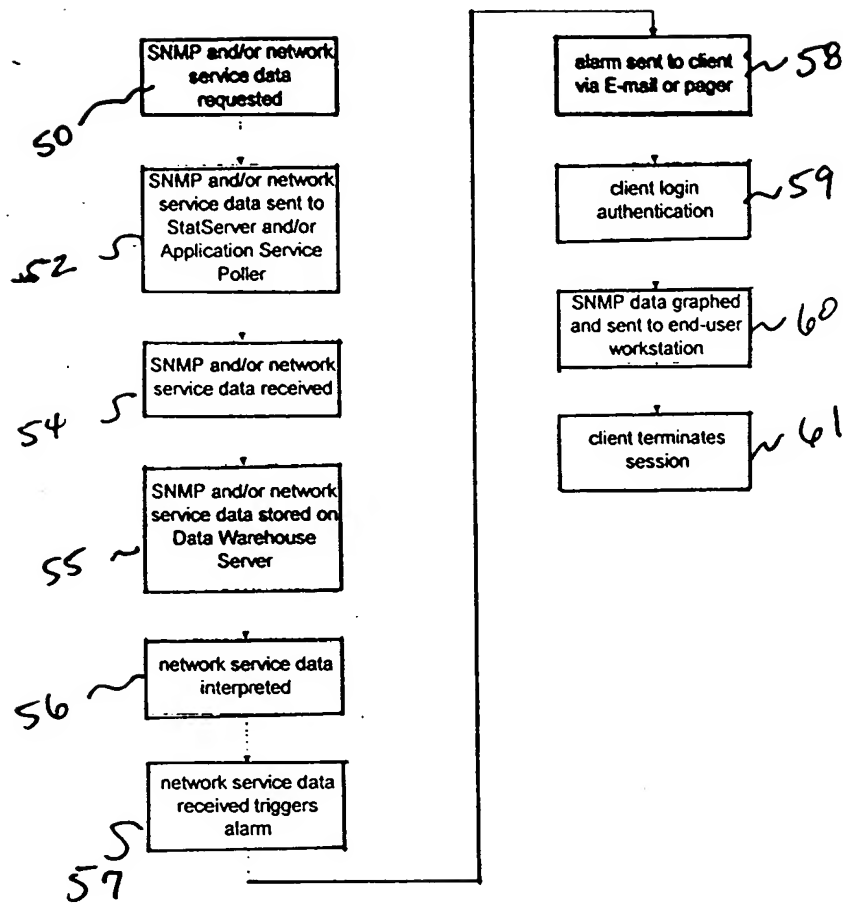


FIG. 5



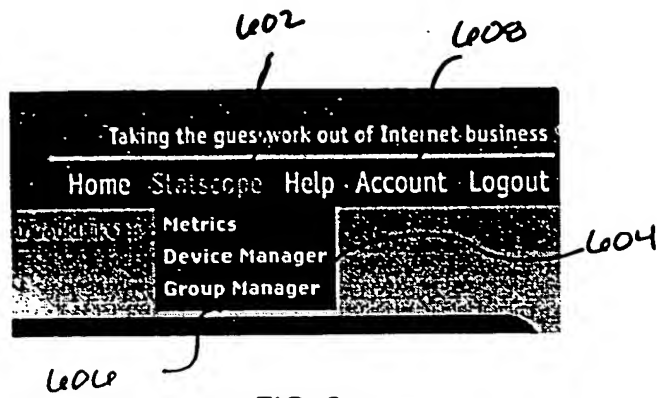


FIG. 6



FIG. 7

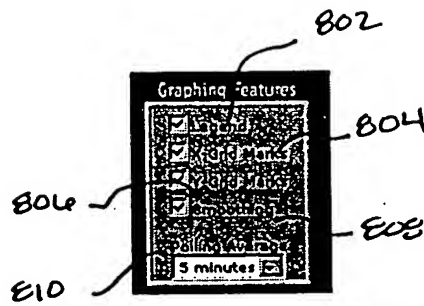


FIG. 8

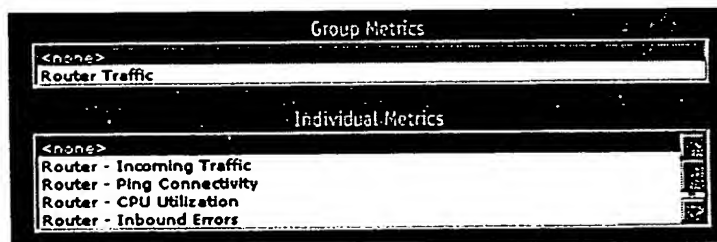


FIG. 9

## Edit Monitor

**Functionality**  
Polling: ☒  
Notifications: ☐

**Primary Contact**  
Primary Email:   
Primary Pager:

**Secondary Contact**  
Email:   
Pager:

**Tertiary Contact**  
Email:   
Pager:

**Escalation Delay**  
Primary Level: 0  
Secondary Level: 0  
Tertiary Level: 0

**Thresholds:**  
High: -1  
Low: -1

FIG. 10

|         | Alias        | IP Address    | ISP   | Type   | Location    | Monitors  |   |                          |
|---------|--------------|---------------|-------|--------|-------------|---|---|--------------------------|
|         |              |               |       |        |             | Alias   | Type                                      | Polling Alerts           |
| DEVICES | Cisco Router | 64.32.175.161 | Verio | Router | Seattle, WA | <input checked="" type="checkbox"/> CPU Utilization   | snmp                                      | <input type="checkbox"/> |
|         |              |               |       |        |             | <input checked="" type="checkbox"/> Inbound Errors    | snmp                                      | <input type="checkbox"/> |
|         |              |               |       |        |             | <input checked="" type="checkbox"/> Incoming Traffic  | snmp                                      | <input type="checkbox"/> |
|         |              |               |       |        |             | <input checked="" type="checkbox"/> Outbound Errors   | snmp                                      | <input type="checkbox"/> |
|         |              |               |       |        |             | <input checked="" type="checkbox"/> Outgoing Traffic  | snmp                                      | <input type="checkbox"/> |
|         |              |               |       |        |             | <input checked="" type="checkbox"/> Ping Connectivity | connectivity                              | <input type="checkbox"/> |
|         |              |               |       |        |             | <input type="button" value="Edit Device"/>            | <input type="button" value="Add Device"/> |                          |

1102

FIG. 11

Add Group

Edit Groups

|            |  |
|------------|--|
| Group List | Cisco Router - Incoming Traffic<br>Cisco Router - CPU Utilization<br>Cisco Router - Inbound Errors<br>Cisco Router - Outbound Errors |
|------------|--|

Preview Group

Group Alias: Router Errors
Preview Group

Delete Group

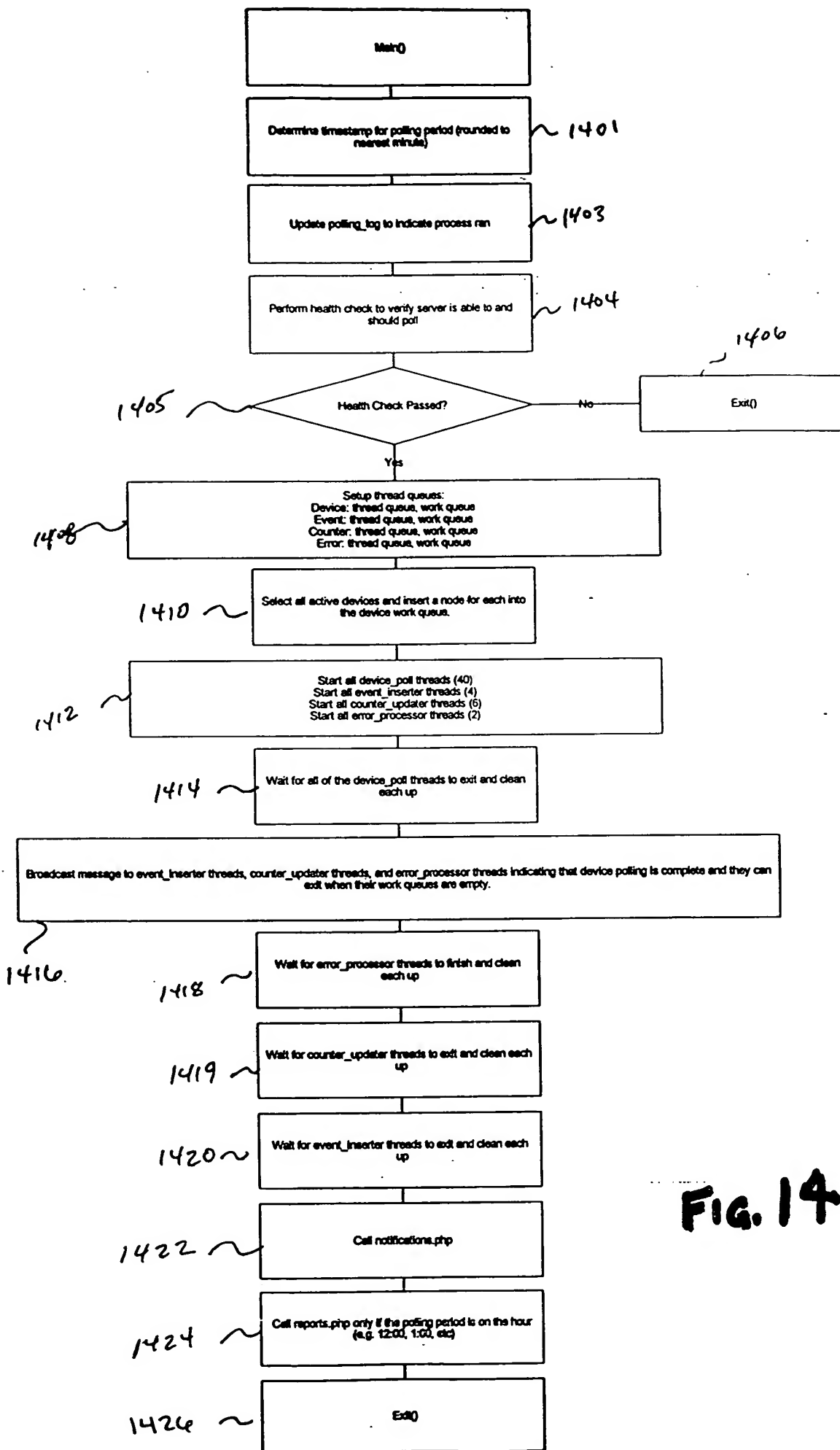
Group Alias: Router Errors
Delete Group

FIG. 12

| Technical Contact   | Billing Contact  |
|---|--|
| Name: Brian Mansel<br>Email Address: brian.mansell@psciences.com<br>Phone Number: 206-679-1949<br>Mobile Number: 206-679-1949                           | Name: Brian Mansel<br>Email Address: brian.mansell@psciences.com<br>Phone Number: 206-679-1949<br>Mobile Number: 206-679-1949<br>Address: 2566 14th Ave W #5<br>Address (Optional):<br>City, State: Seattle, WA<br>Zip Code: 98119 |
| <input type="button" value="Edit Technical Contact"/> <input type="button" value="Change Password"/> <input type="button" value="Add Billing Contact"/> |  |

Name: Brian Mansel  
Email Address: brian.mansell@psciences.com  
Phone Number: 206-679-1949  
Mobile Number: 206-679-1949  
Address: 2566 14th Ave W #5  
Address (Optional):  
City, State: Seattle, WA  
Zip Code: 98119

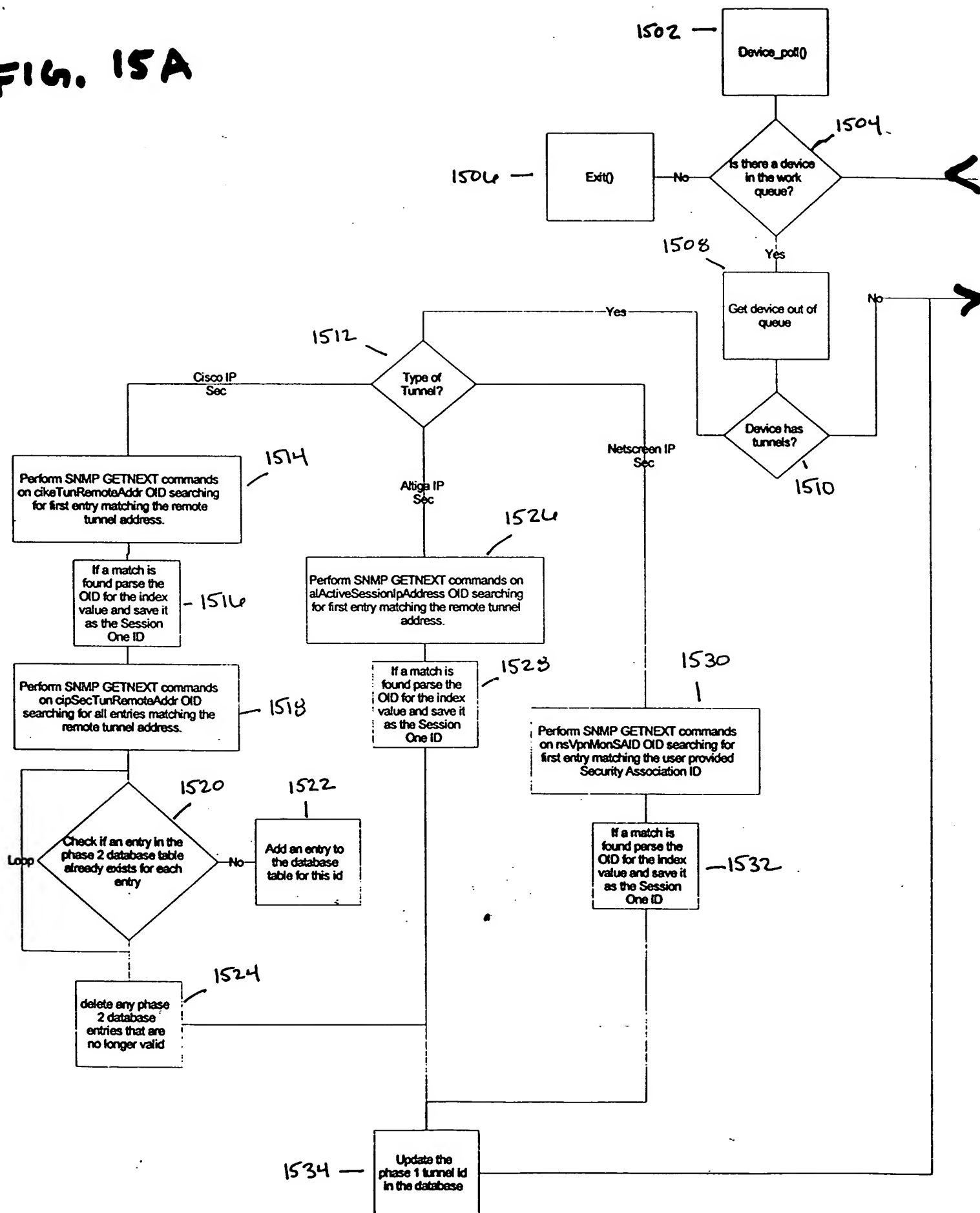
FIG. 13

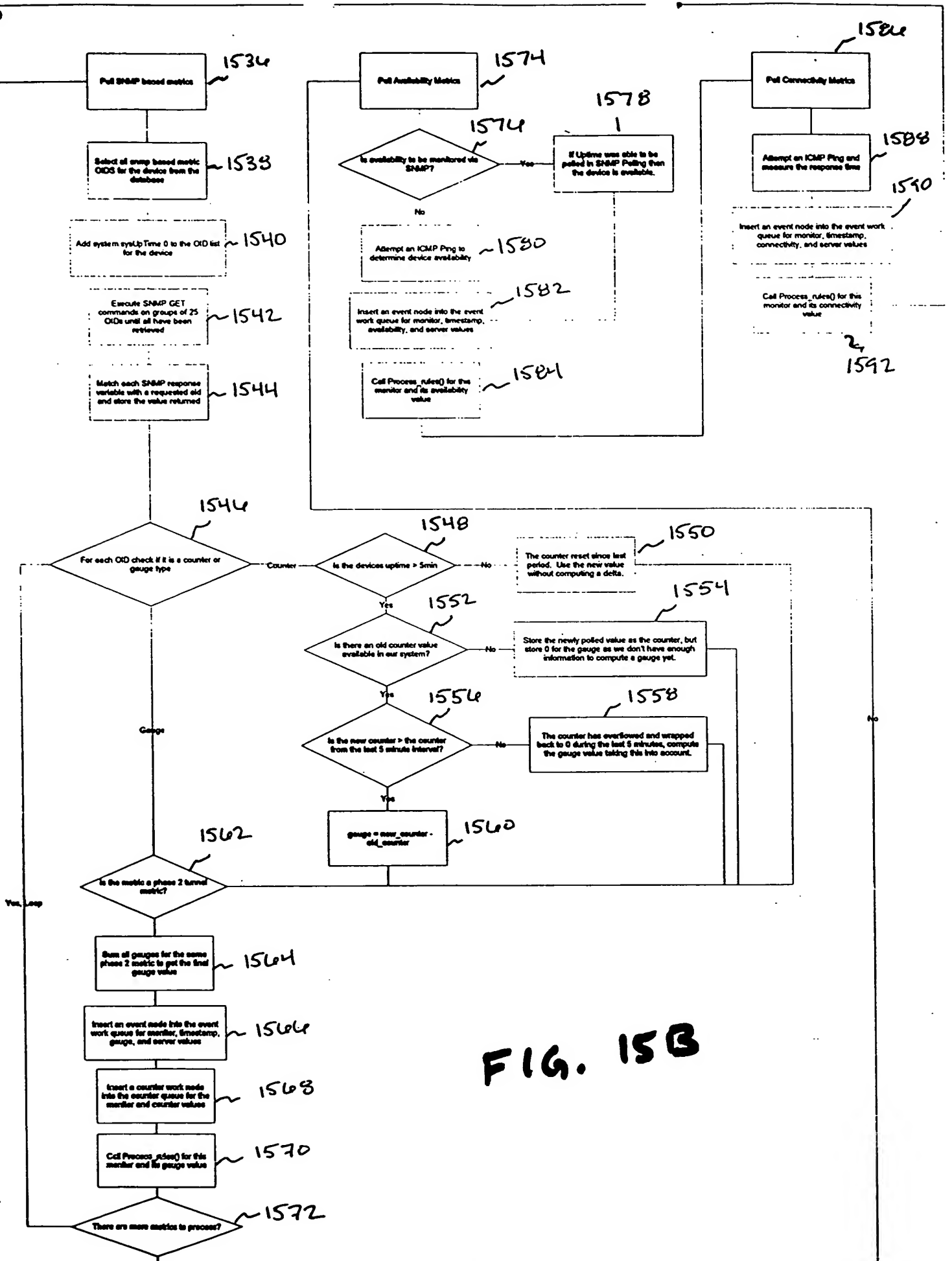


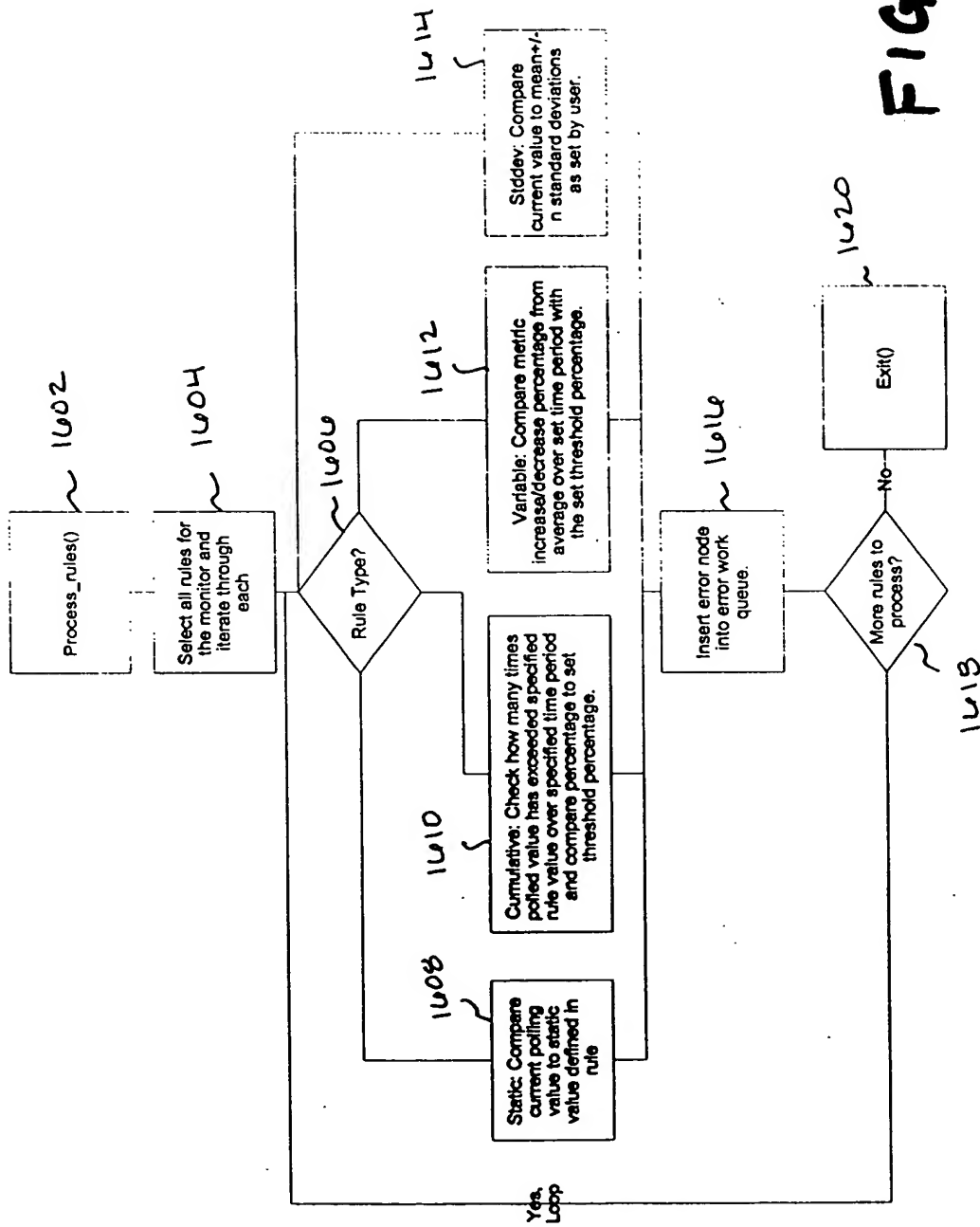
**FIG. 14**



FIG. 15A







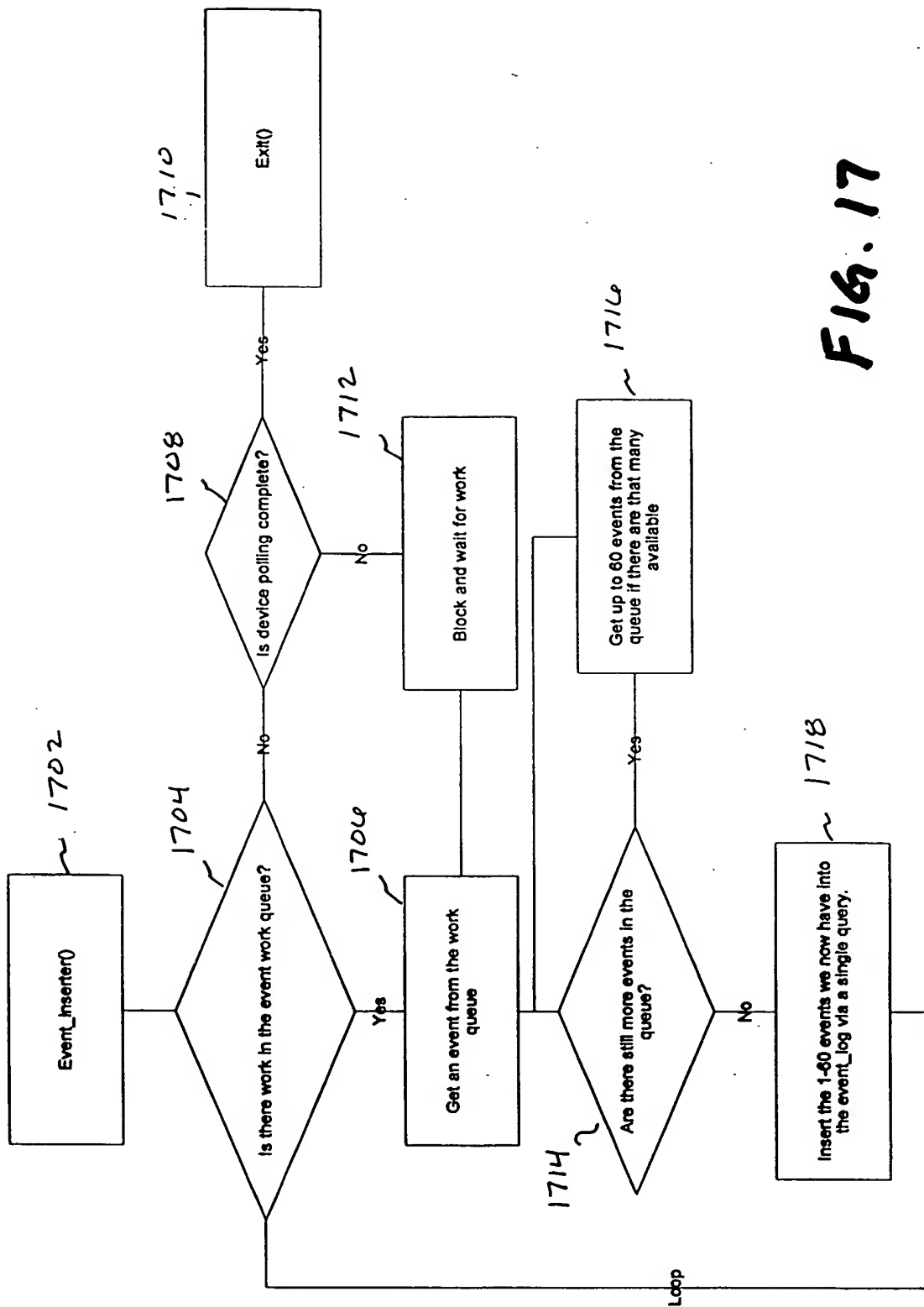
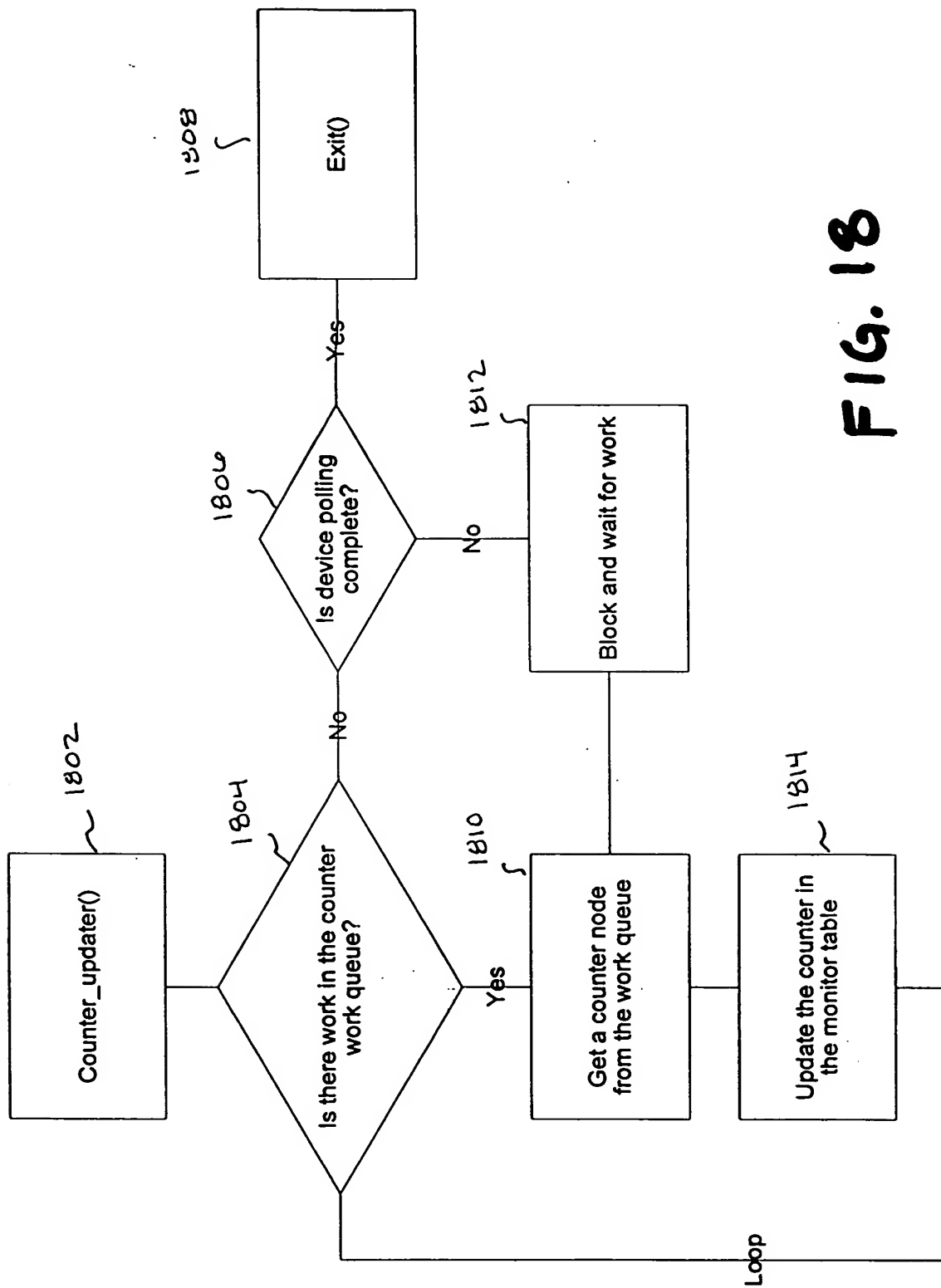
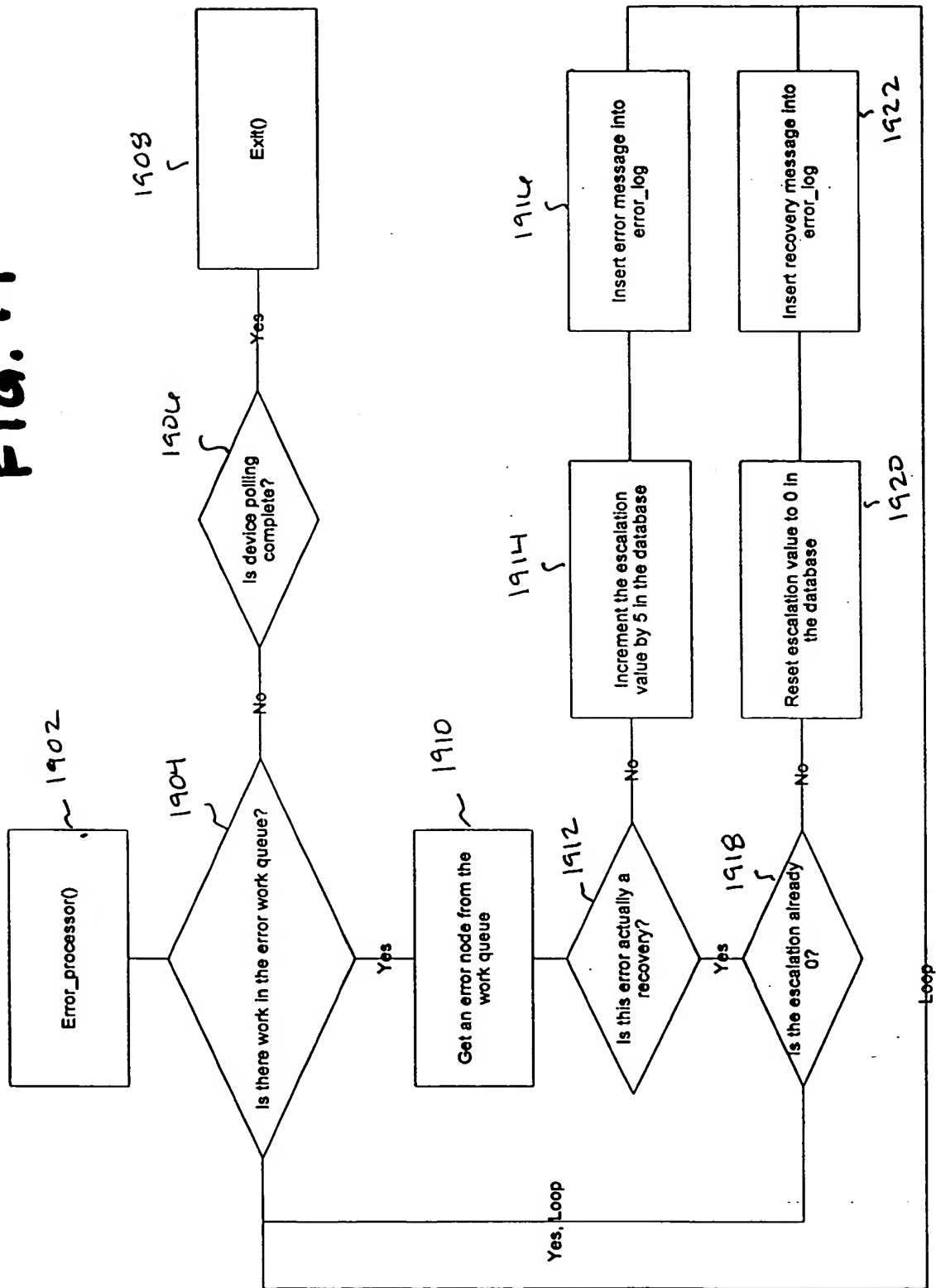


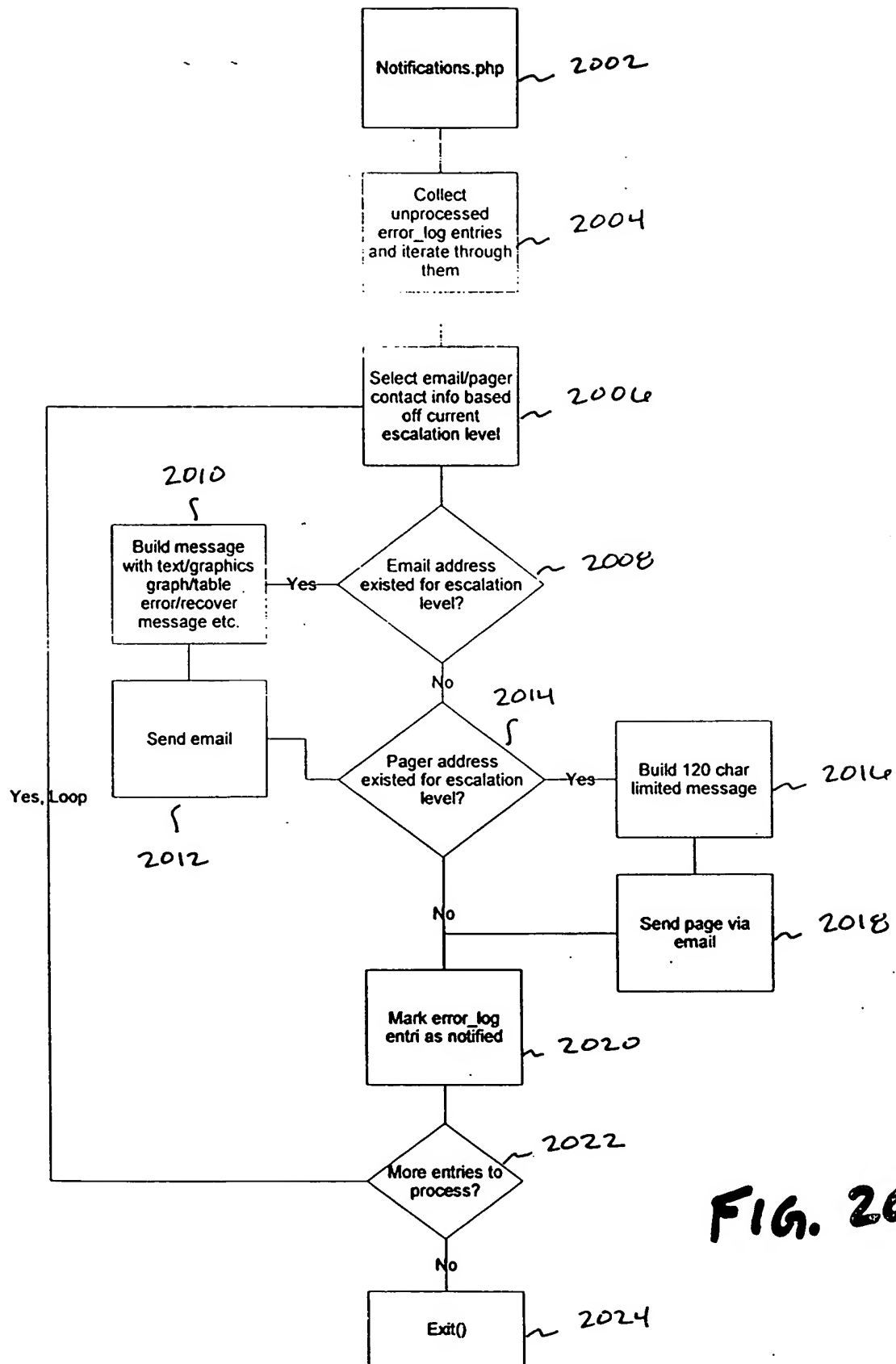
FIG. 17



**FIG. 18**

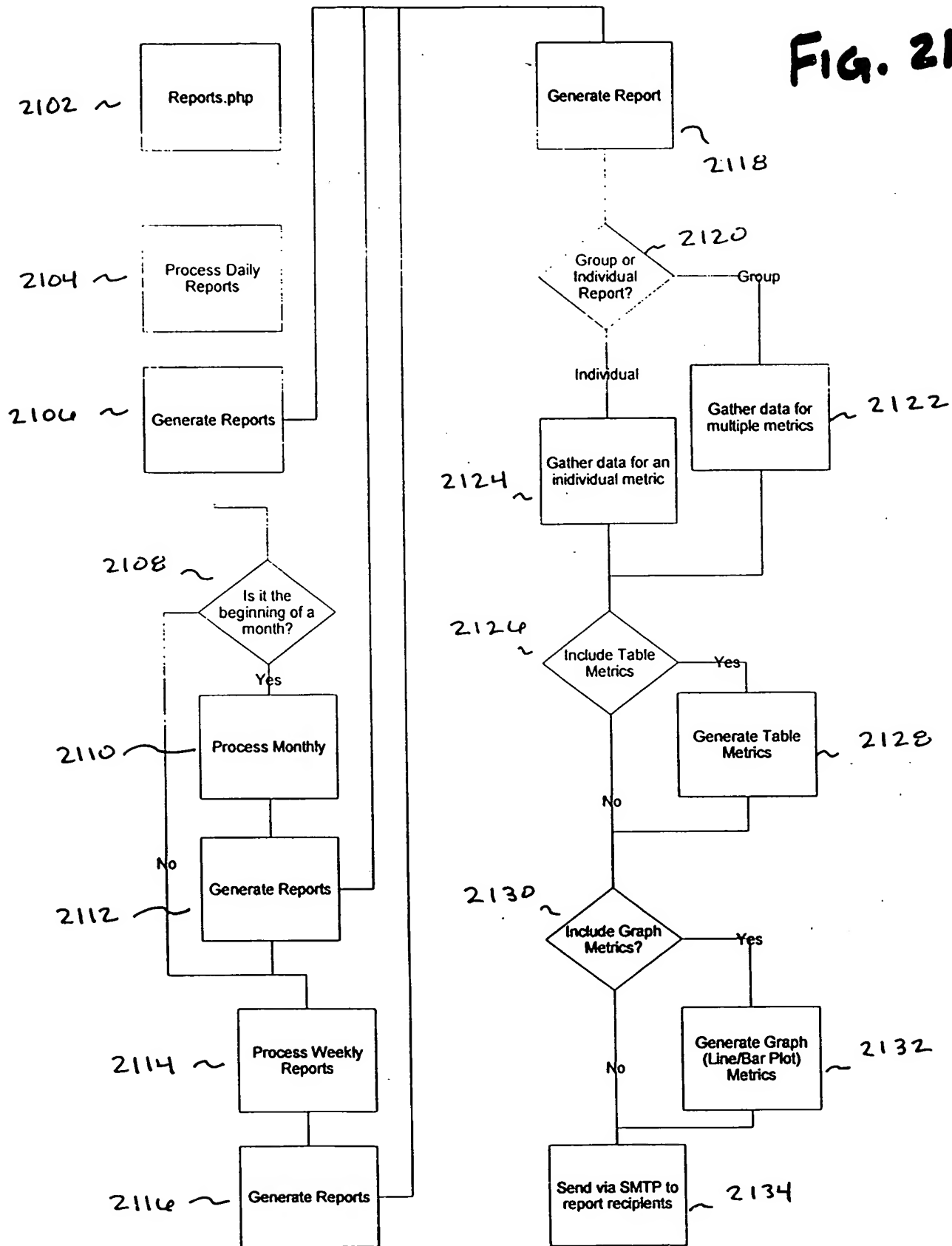
FIG. 19






**FIG. 20**

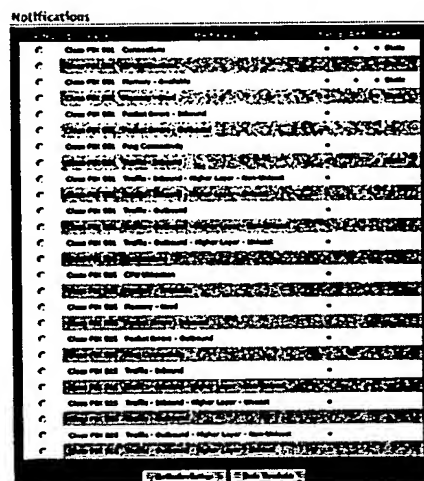
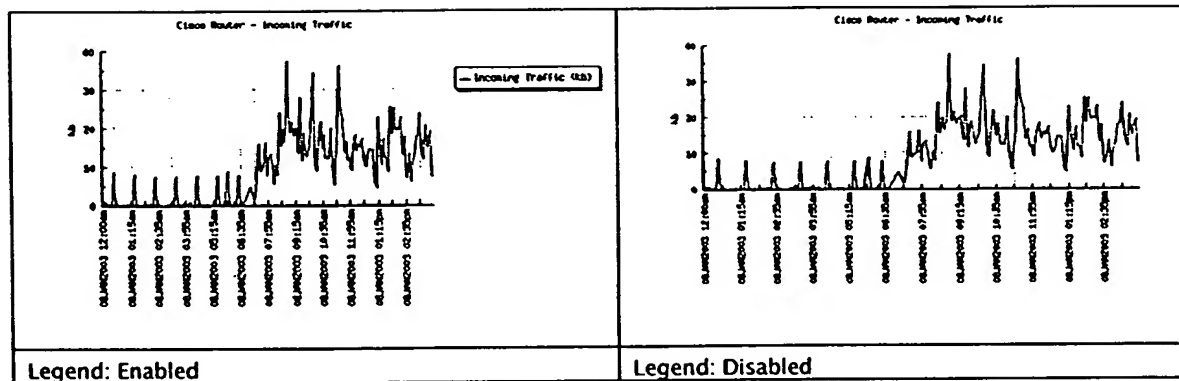
# FIG. 21







A screenshot of a graphical user interface showing a menu. The menu bar at the top includes 'Home', 'Statistics', 'VPNStats', 'Help', 'Account', and 'Logout'. A dropdown menu is open under the 'Statistics' item, displaying the following options: 'Metrics', 'Notifications', 'Device Manager', and 'Group Manager'. Below the menu, a line of text reads: '... of the options in the menu above. For'.



**Edit Notification Settings**

☐ Email  
☐ Pager  
☐ SMS

**Primary Contact**  
 Email:   
 Pager:

**Secondary Contact**  
 Email:   
 Pager:

**Tertiary Contact**  
 Email:   
 Pager:

**Escalation Delay**  
 Primary Level:   
 Secondary Level:   
 Tertiary Level:

FIG. 25

**Static Thresholds**

Cisco PIX 501 - CPU Utilization

High (percent):   
 Low (percent):

FIG. 26

**Device Manager**

| Selected                            | ID           | IP Address    | Type  | Location |
|-------------------------------------|--------------|---------------|-------|----------|
| <input checked="" type="checkbox"/> | Cisco Router | 64.36.175.161 | Verio | Router   |

FIG. 27

**Edit Device Attributes**

Name:   
 IP Address:   
 Type:   
 Location:   
 Comments:

FIG. 28

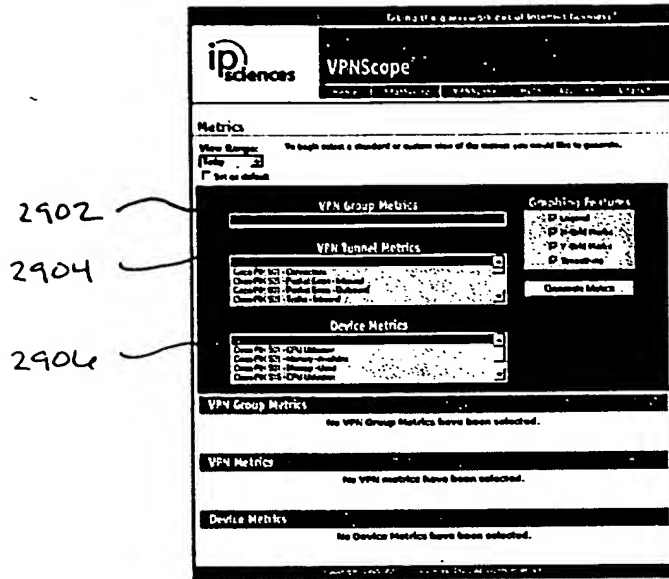


FIG. 29

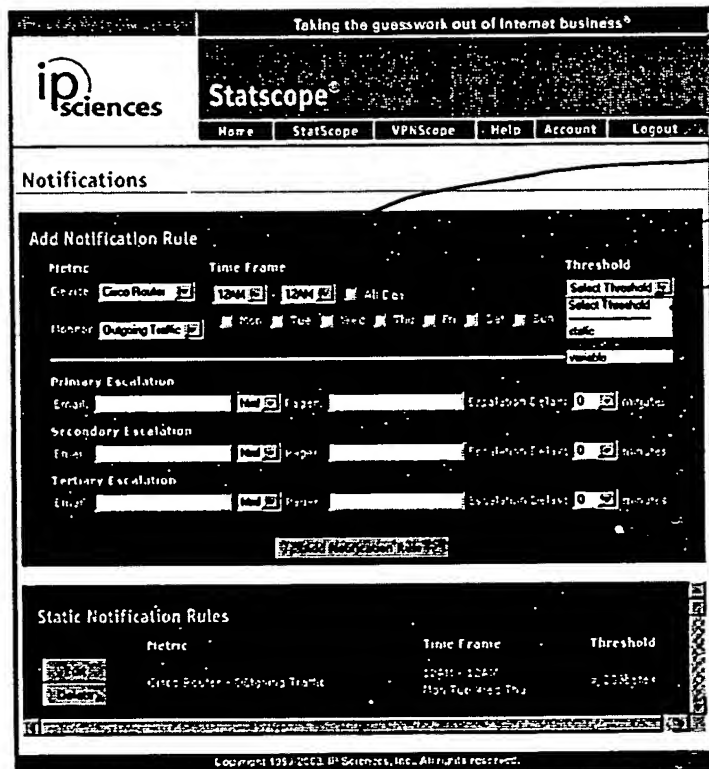


FIG. 30A

#### Alert Rules

| Day(s)                                    | Time    | Threshold Type | Threshold  | Metric(s)  |
|---|---------|----------------|--|--|
| <input checked="" type="radio"/> All Week | All Day | Cumulative     | exceeds 45.00 percent for 40% of polling periods over 15 hours | Orange Router - CPU Utilization  |
| <input type="radio"/> All Week            | All Day | Static         | exceeds 45.00 percent  | Cisco Router - CPU Utilization   |
| <input type="radio"/> All Week            | All Day | Variable       | increases by a unit value of 13.67 kbps over 14 hours          | dev01 - eth3 - Inbound Traffic<br>dev01 - interface - Inbound Traffic            |
| <input type="radio"/> All Week            | All Day | Variable       | increases by a percentage value of 45% over 11 hours           | Cisco Router - External - Inbound Traffic<br>dev01 - interface - Inbound Traffic |

FIG. 30B

Threshold: Static

If metric exceeds 1.75 bps during a polling period.

FIG. 31A

Threshold: Standard Deviation

If current metric's value exceeds mean +/- 1.75 standard deviations as evaluated over the past 14 days

FIG. 31B

Threshold: Variable

If current metric increases by a percentage value of 45 % from the average value calculated over the past --- hours

FIG. 32A

Threshold: Variable

If current metric increases by a unit value of 45 percent from the average value calculated over the past --- hours

FIG. 32B

Threshold: Cumulative

If tunnel is unavailable for 50% of polling periods over 6 days

FIG. 33



3600

Select Devices

- ☒ Device
- ☒ Location
  - ☒ Continent
    - ☒ North America
  - ☒ Country
    - ☒ United States
  - ☒ State
    - ☒ California
    - ☒ Washington
  - ☒ City
    - ☒ Los Angeles
    - ☒ Seattle
    - ☒ Spokane
  - ☒ Building
    - ☒ [Unknown]
    - ☒ C&H Office
    - ☒ Xion Office
  - ☒ Floor/Room
    - ☒ [Unknown]
    - ☒ Basement
- ☒ ISP
  - ☒ Alias
    - ☒ [Unknown]
    - ☒ AT&T
  - ☒ Circuit Type
    - ☒ DSL
    - ☒ GIG-E

Select Devices

FIG. 36

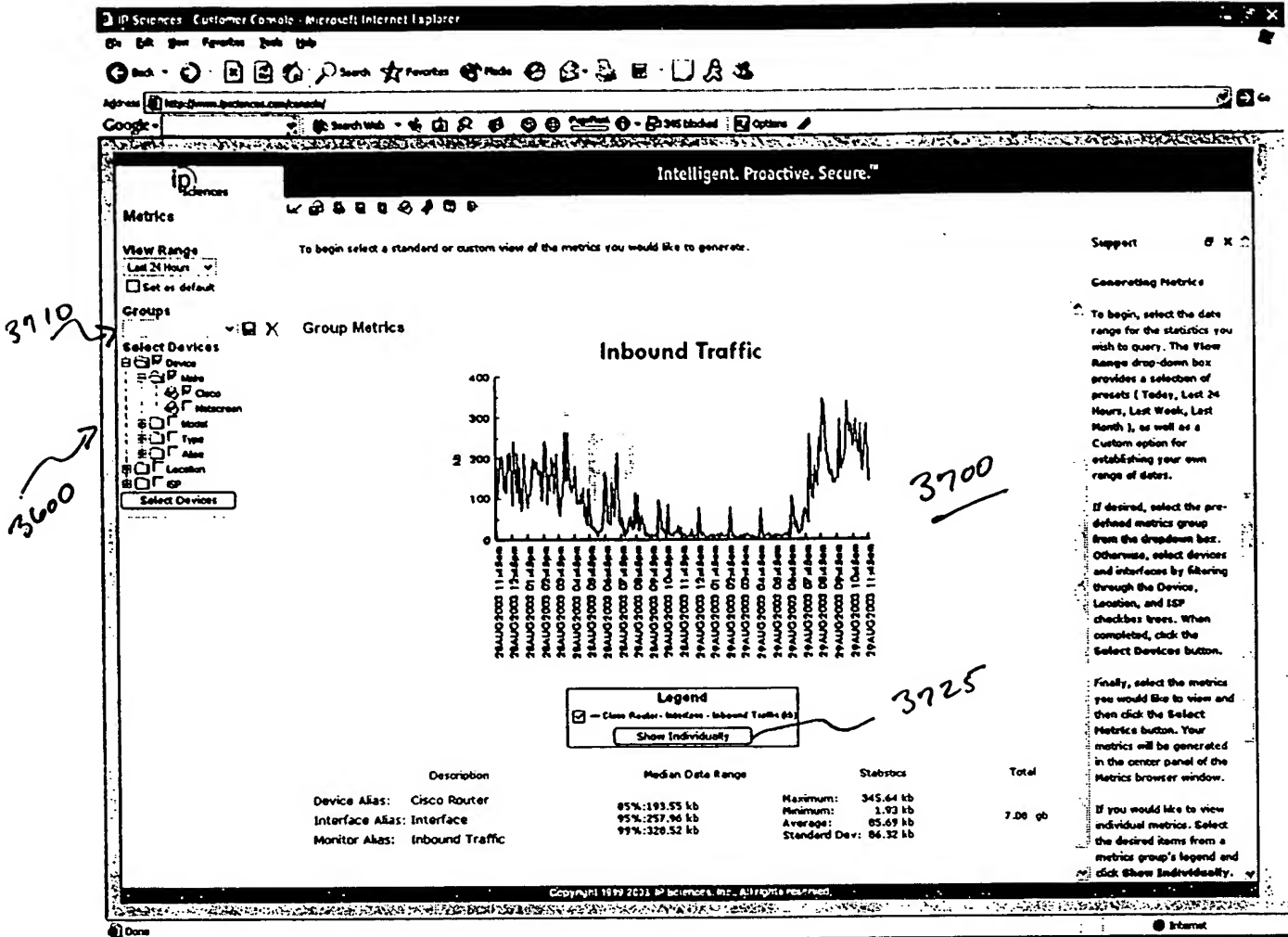


FIG. 37

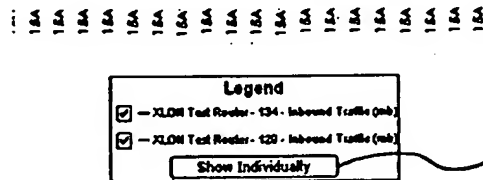


FIG. 38

Today ☒

☐ Set as default

Groups

Create New... ☒ X

Alias: test group

Select Devices

☒ Device

☒ Make

FIG. 39

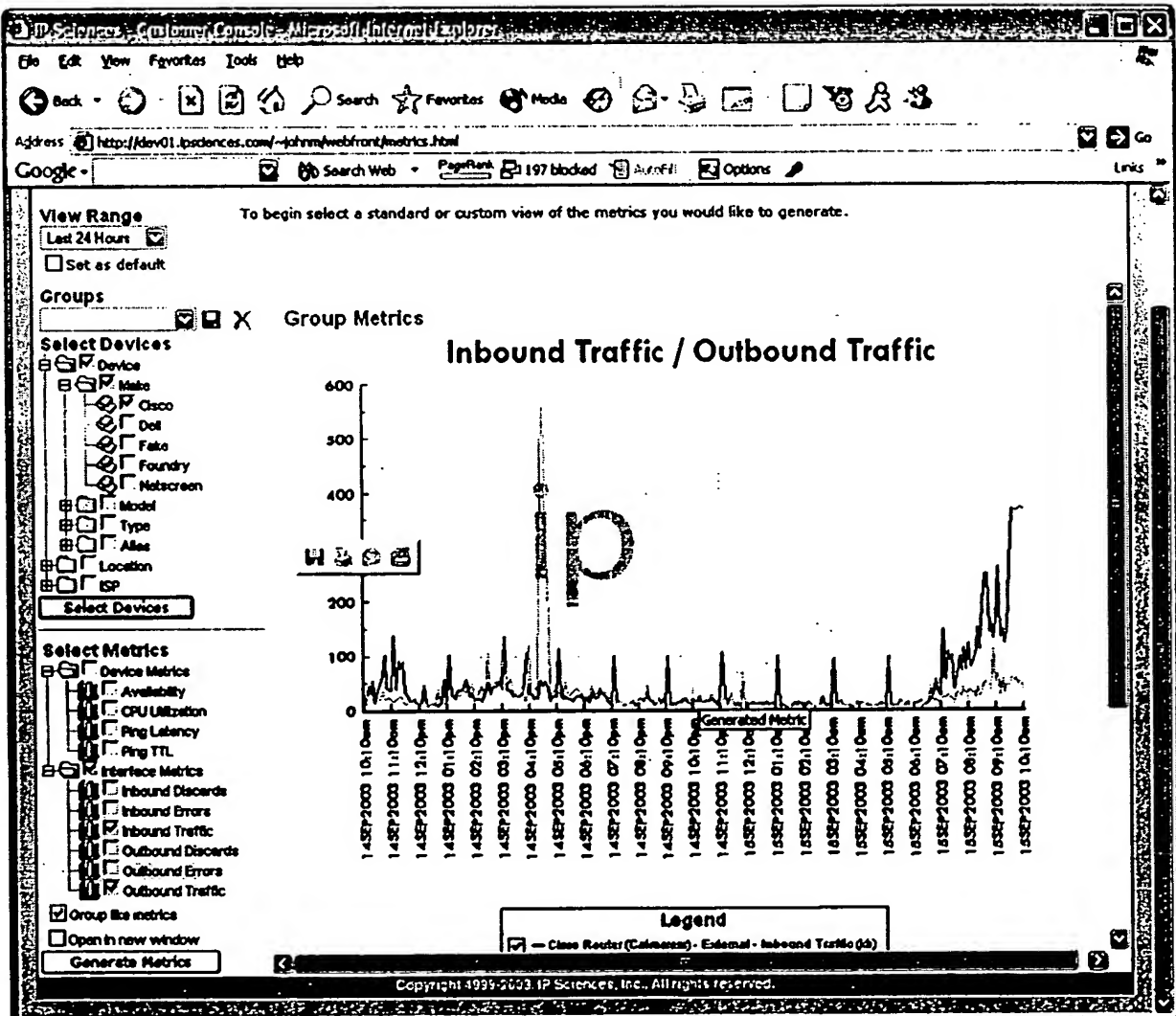


FIG. 40



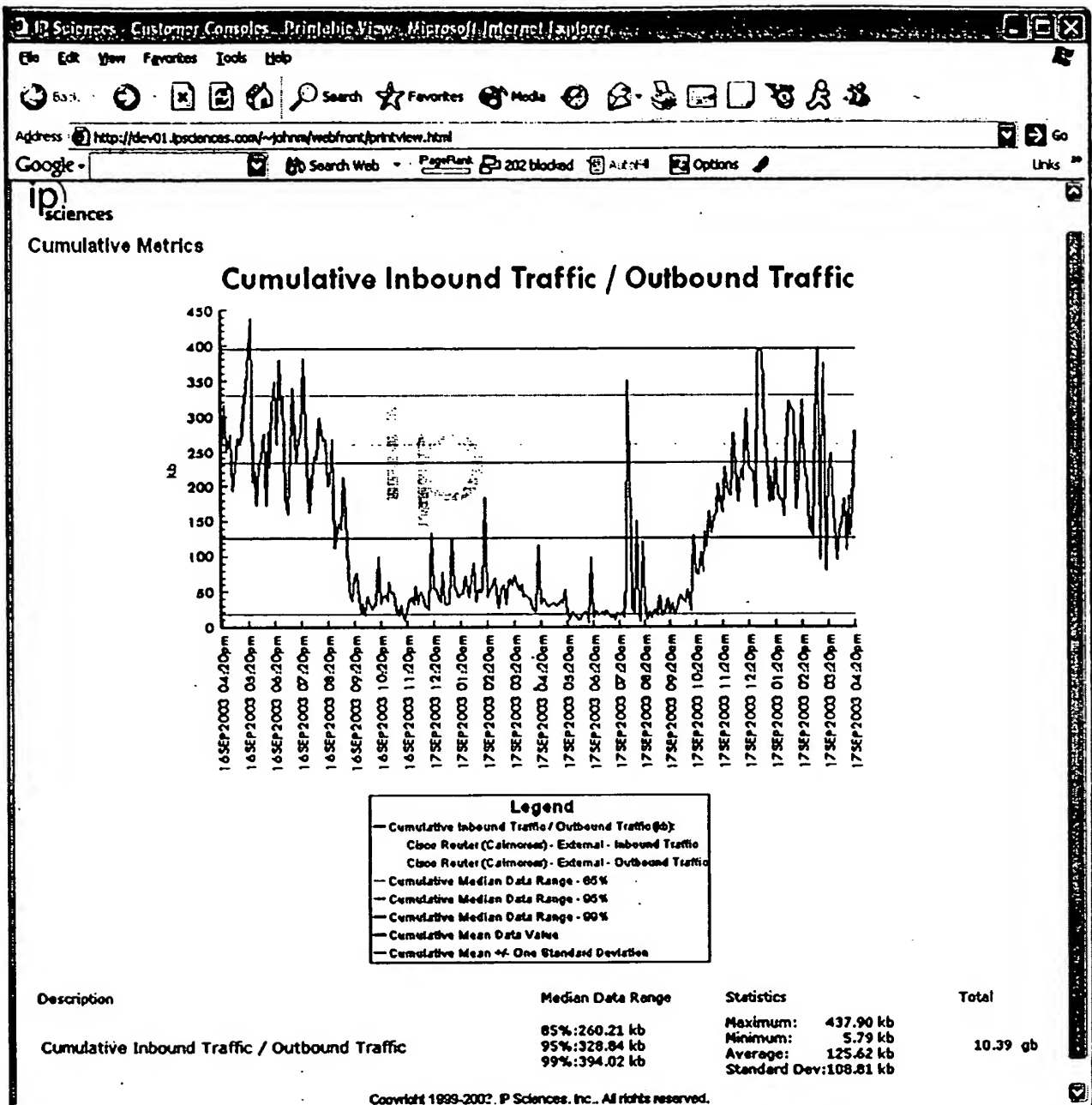


FIG. 41

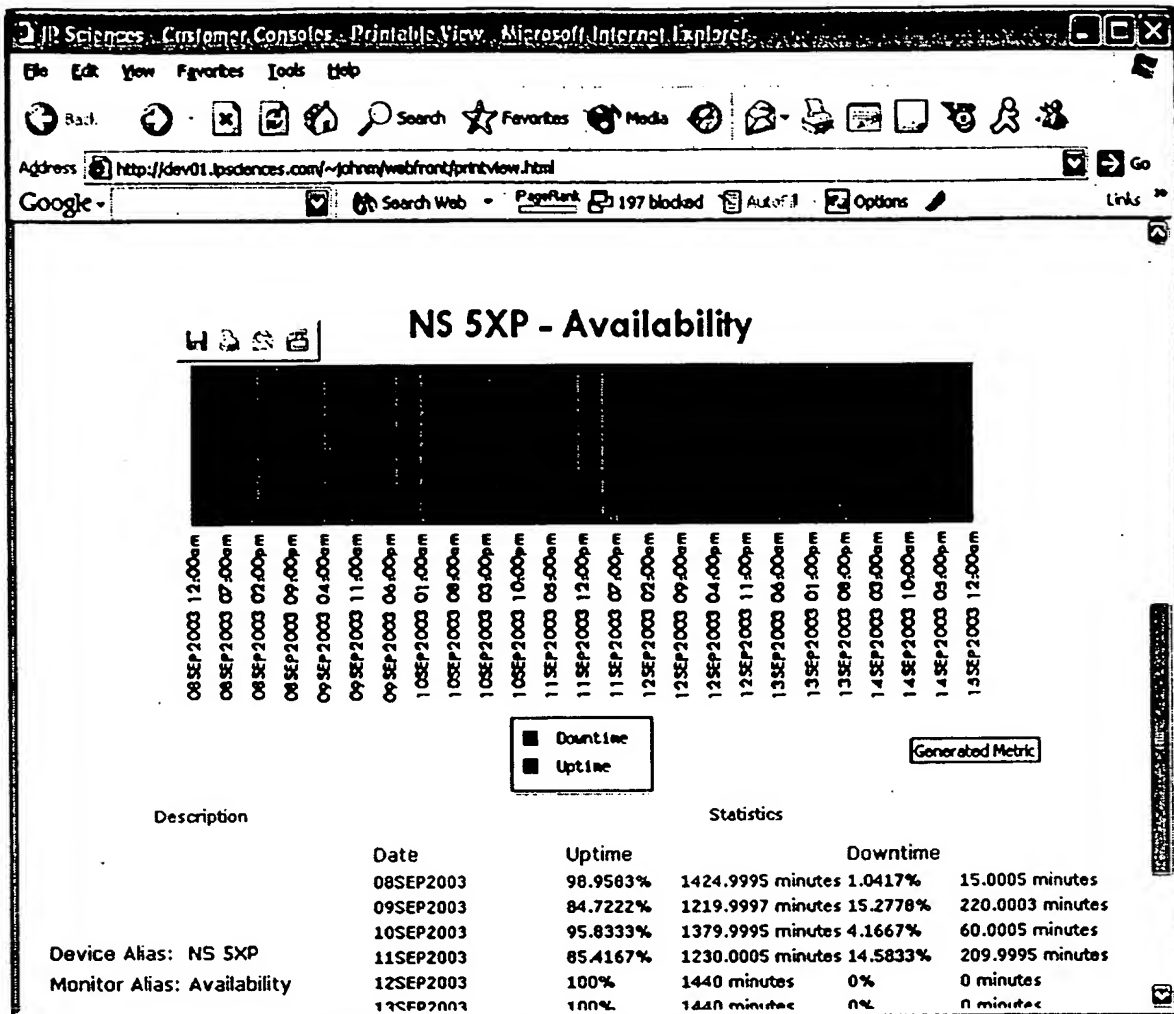


FIG. 42

ip Sciences Customer Console - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address http://dev01.ipsciences.com/~johna/webfront/notifications.html

Google Search Web PageRank 197 blocked AutoFill Options Links

---

**ip sciences** Intelligent. Proactive. Secure.™

Notifications

**Add Alert Rule**

Metric Type: ☐ Device ☒ Interface

Metric Alias: Inbound Traffic ☒

Interfaces:

- ☒ XLON Test Router - 134
- ☒ XLON Test Router - 129
- ☐ Cisco Router (Cairncross) - External
- ☒ dev01 - eth2
- ☒ dev01 - eth3

Time Frame: 12AM ☒ - 12AM ☒ ☐ All Day

Days: ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun ☐ All Week

Threshold: Static ☒

If metric exceeds ☒ 23 mbps ☒ during polling period.

Email:

Primary Escalation: Mobile Email:

Escalation Delay: 0 ☒ minutes

FIG. 43

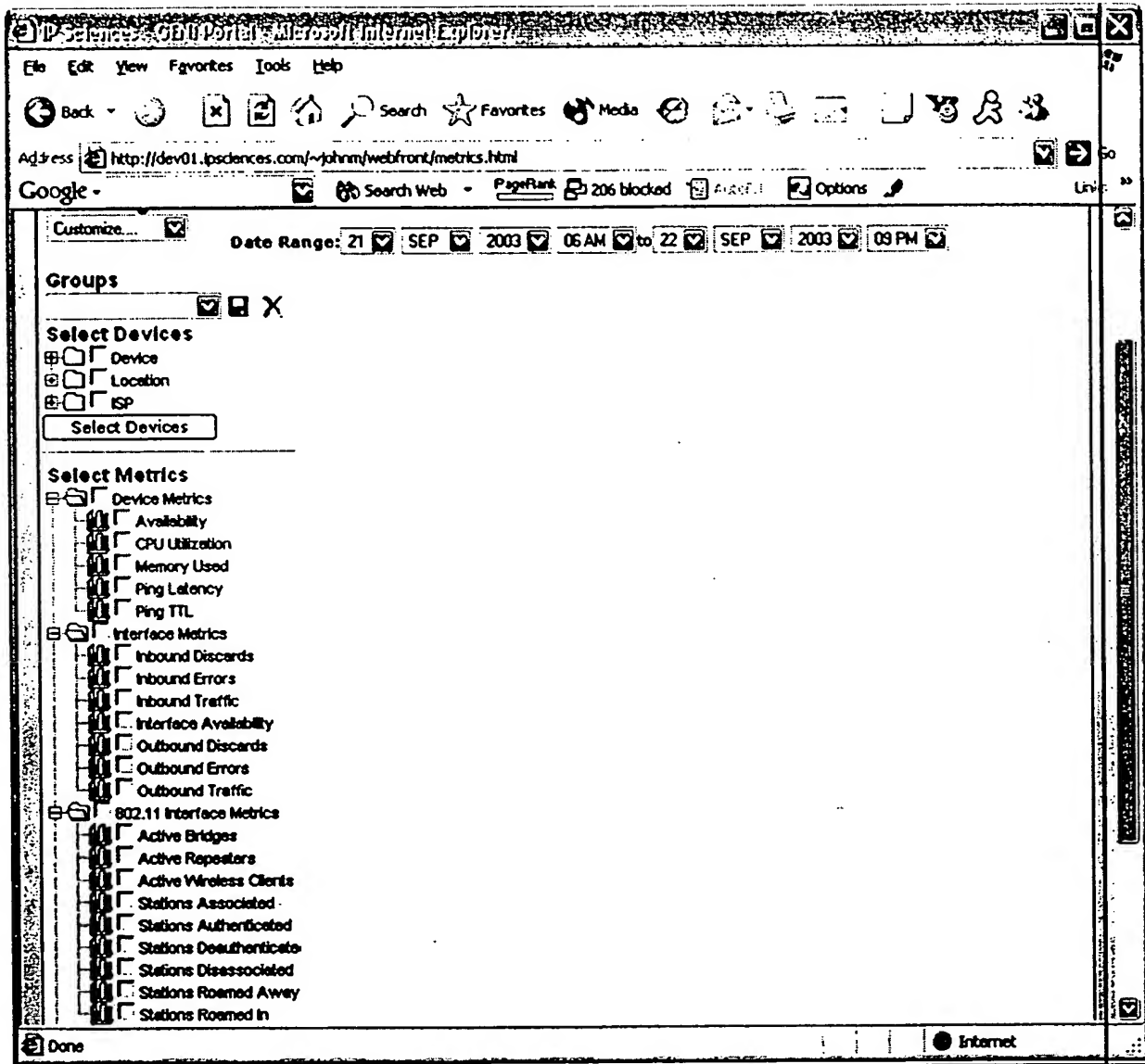


FIG. 44